DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY AVIATION AND TROOP COMMAND
4300 GOODFELLOW BOULEVARD, ST. LOUIS, MO 63120-1798

REPLY TO
ATTENTION OF

AUG 2 4 1994

Contract Operations Directorate
Watercraft Section, AMSAT-A-PSLW
Modular Causeway Ferry, Contract DAAK01-93-D-0007
Serial No. MCS 0005

Lake Shore, Inc.
Mr. Tom Csmarich, Program Manager
PO Box 908
Iron Mountain, Michigan 49801

Dear Mr. Csmarich:

This is to clarify that formal approval has been given on ECP No. 0007-E001 for the Modular Causeway paint system as submitted by Lake Shore on DD Form 1693, dated 4 March 1994.

I have attached a copy of the approved DD Form 1693 along with your Attachments A and B which describes the change and the need for the change.

As noted in Block 21 of DD Form 1693, this is a no cost change to this contract.

If you need further information, please call me at (314) 263-2909.

LaVerne R. Riebold
Contracting Officer

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ENGINEERING CHANGE PROPOSAL (SHORT FORM) (SEE MIL-STD-481 FOR INSTRUCTIONS)	DATE PREPARED	ECP NO	PROCURING ACTIVITY NO.
	March 4, 1994	0007-E001	94CE0189

1. ORIGINATOR NAME AND ADDRESS	2. MFR. CODE	3. CLASS OF ECP	4. JUST. CODE	5. PRIORITY
Lake Shore Inc. P.O. Box 809 Iron Mountain, MI 49801	34712	I	C	U

6. SPECIFICATIONS AFFECTED		7. DRAWINGS AFFECTED		
MFR. CODE	SPECIFICATION/DOCUMENT NO.	MFR. CODE	NUMBER	REV.
	PD1990-0098	34712	F03152	

8. TITLE OF CHANGE

MCSC Paint System

9. CONTRACT NO. & LINE ITEM

DAAK01-93-D-0007
Lines 0001AA, 0001AB & 0001AC

10. CONFIGURATION ITEM NOMENCLATURE

Modular Causeway System Components

11. IN PRODUCTION

☐ YES ☒ NO

12. NAME OF PART OR LOWEST ASSEMBLY AFFECTED

Pontoon Modules and Appurtenances

13. PART NO. OF TYPE DESIGNATION

Various

14. DESCRIPTION OF CHANGE

See Attachment A

15. NEED FOR CHANGE

See Attachment B

16. EFFECT ON ASSOCIATED EQUIPMENT

None

17. PRODUCTION EFFECTIVITY BY SERIAL NO.	18. EFFECT ON PRODUCTION DELIVERY SCHEDULE
S/N Not Yet Assigned (1st Production Unit)	None

19. RECOMMENDED RETROFIT EFFECTIVITY	20. ESTIMATED KIT DELIVERY SCHEDULE
N/A	N/A

21. ESTIMATED COSTS/SAVINGS

No Cost Change

22. SUBMITTING ACTIVITY AUTHORIZING SIGNATURE	TITLE
Thomas J. Osmarich	Program Manager

23. APPROVAL/DISAPPROVAL

GOVERNMENT ACTIVITY	SIGNATURE	DATE
WSMD for AWC AMSAT-I-WTA	[signature]	23 MAR 94

BLOCK 14 - Description of Change

Purchase description, paragraph 3.5.26.2 calls out DOD-P-24648, Type I, Class I, Composition B as the MCF coating system. Paragraph 3.5.26.3 calls out IC-PS28 or equal as deck coating.

Change the coating system to MIL-P-23236B(SH), Type IV for the coating system. Deck Surfaces to be treated with aluminum oxide grit incorporated into the parent coating system.

Proposed Paint Schedule:

Surface Preparation

SSPC-SP10

Primer/Finish

All exterior surfaces and powered module interior.

Apply two (2) full coats of Amercoat 385, at 5.0 mils dft per coat. (color red/gray).

Deck Surfaces

Apply one full coat of Amercoat 385 non-skid using 30 mesh aluminum oxide grit incorporated in the coating. (color deep gray)

BLOCK 15 - Need for Change

Coating system DOD-P-24648 was employed on Navy Lighterage Causeways (N47408-89-C-2500) with poor to mixed results. A major problem with non-skid detachment from the zinc primer was experienced. In addition, the system is application sensitive and is subject to delaying the production cycle when the need to apply non-skid occurs. Attachment (1) to this ECP is a summary report of the situation at Lake Shore in 1991, using IC-PS28 over inorganic zinc. Of particular interest is the discussion on pages 11-13.

Lake Shore believes that use of the suggested system, MIL-P-23236 (SH), will provide better life cycle value to the Government. The proposed product is similar to MIL-P-24441 in its intended use, but has the advantage of an unlimited recoat window. Surface preparation for recoating requires only mechanical cleaning of damaged areas. This system is used extensively in the marine industry, and has U.S. Navy approval as a suitable alternative to inorganic zinc primers and MIL-P-24441.

Repair of inorganic zincs require abrasive blast per SSPC-SP10. The removal of zincs is of growing concern. Many areas now require containment of blast residue adding greatly to repair and maintenance cost.